

AMENDMENTS TO THE CLAIMS

Please cancel claims 1-8, 11-14, and 17-18 and add new claims 19-33 as indicated in the listing of claims below. This listing of claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS

Claim 1-8 (canceled)

9. (currently amended) A method of identifying a first test compound that inhibits the binding activity of a NLV, ~~preferably selected from the group consisting of strain 387, strain MOH, strain NV, strain 207, strain 02-1419, and mixtures thereof, with a standard compound, preferably a histo blood group antigen~~, the method comprising the steps of:
 - a) contacting a NLV target with ~~a~~ the test compound selected from the group consisting of a protein, a polypeptide, an oligosaccharide, a natural compound, and poly- and monoclonal antibodies, and mixtures thereof;
 - b) contacting the NLV with ~~a~~ the standard compound that is known to ~~be~~ bind with a determinant binding site of the NLV; and
 - c) determining whether the binding of the standard compound is decreased in the presence of the test compound, the decrease in binding being an indication that the test compound inhibits the binding activity of the NLV with the standard compound.
10. The method according to claim 9 wherein two or more of the NLV targets are contacted independently.

Claims 11-14 (canceled)

15. (currently amended) A pharmaceutical composition comprising ~~a-at least one~~ compound selected from the group consisting of a protein, peptide, oligosaccharide, natural compound, a functionally equivalent molecule, and mixtures thereof, which competitively inhibits the binding of a NLV with a native histo-blood group antigens of a human host, ~~preferably by binding to the NLV~~, and optionally a pharmaceutically acceptable carrier.
16. A medicament comprising:

a) at least one carbohydrate compound, selected from:

- 1) at least one carbohydrate selected from the group consisting of fucosyl $\alpha 1 \rightarrow 3/4$ N-acetyl glycosyl globoside (F3AG), a stabilized, synthetic F3AG analogue, and mixtures thereof, in an amount that inhibits binding of NLV strain 207 to gastroepithelium of a non-secretor individual;
- 2) at least one carbohydrate selected from the group consisting of fucosyl $\alpha 1 \rightarrow 2$ galactose globoside (F2G), a stabilized, synthetic F2G analogue, and mixtures thereof, in an amount that inhibits binding of NLV strain 387 to gastroepithelium of a secretor individual;
- 3) at least one carbohydrate selected from the group consisting of N-acetyl galactosyl $\alpha 1 \rightarrow 3$ galactosyl globoside (AG3G), N-acetyl galactosyl $\alpha 1 \rightarrow 4$ galactosyl globoside (AG4G), a stabilized, synthetic AG3G analogue, a stabilized, synthetic AG4G analogue, and mixtures thereof, in an amount that inhibits binding of NLV strain MOH to gastroepithelium of a secretor individual;
- 4) at least one carbohydrate selected from the group consisting of galactosyl $\alpha 1 \rightarrow 3$ galactosyl globoside (G3G), galactosyl $\alpha 1 \rightarrow 4$ galactosyl globoside (G4G), a stabilized, synthetic G3G analogue, a stabilized, synthetic G4G analogue, and mixtures thereof, in an amount that inhibits binding of NLV strain MOH to gastroepithelium of a secretor individual; and
- 5) mixtures thereof; and

b) a pharmaceutically acceptable diluent, carrier or excipient.

Claims 17-18 (canceled)

19. (new) The method according to claim 9 wherein the NLV is selected from the group consisting of strain 387, strain MOH, strain NV, strain 207, strain 02-1419, and a mixture thereof.

20. (new) The method according to claim 9 wherein the standard compound is a human histo-blood group antigen.

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21. (new) The method according to claim 19 wherein the standard compound is a human histo-blood group antigen.
22. (new) The pharmaceutical composition according to claim 15 wherein the compound binds to the NLV.
23. (new) The pharmaceutical composition according to claim 22, comprising a plurality of the compounds.
24. (new) The pharmaceutical composition according to claim 22, wherein the compound is an oligosaccharide.
25. (new) The pharmaceutical composition according to claim 22 wherein the compound binds to the NLV with the binding specificity of the antigenic determinant of the human histo-blood group antigen.
26. (new) The pharmaceutical composition according to claim 25 wherein the compound comprises a structure selected from the group consisting of the Fuc- α 1 \rightarrow 2 structure of the human histo-blood group H antigen; the GalNAc- α 1 \rightarrow 3 structure of the human histo-blood group A antigen; the Gal- α 1 \rightarrow 3 structure of the human histo-blood group B antigen; the Fuc- α 1 \rightarrow 3/4 structure of the human histo-blood Le^a antigen; and the Fuc- α 1 \rightarrow 2 structure of the human histo-blood Lewis b (Le^b) antigen.
27. (new) The pharmaceutical composition according to claim 26 comprising a plurality of the compounds.
28. (new) The pharmaceutical composition according to claim 27 wherein the plurality of compounds comprise the structures of the Fuc- α 1 \rightarrow 2 structure of the human histo-blood group H antigen; the GalNAc- α 1 \rightarrow 3 structure of the human histo-blood group A antigen; the Gal- α 1 \rightarrow 3 structure of the human histo-blood group B antigen; the Fuc- α 1 \rightarrow 3/4 structure of the human histo-blood Le^a antigen; and the Fuc- α 1 \rightarrow 2 structure of the human histo-blood Lewis b (Le^b) antigen.

29. (new) The pharmaceutical composition according to claim 27 wherein the plurality of compounds are oligosaccharides.

30. (new) The pharmaceutical composition according to claim 28 wherein the plurality of compounds are oligosaccharides.

31. (new) The pharmaceutical composition according to claim 22, in the form of a dose comprising from about 100 to about 10,000 units.

32. (new) The pharmaceutical composition according to claim 31 wherein the dose comprises from about 1,000 to about 10,000 units.

33. (new) The medicament according to claim 16, comprising a plurality of the carbohydrate compounds, comprising at least one each of compounds 1), 2), 3), and 4).